

*High Conversion 50/sec



■ Specifications

● Measuring Section

Accuracy: 0.1%FS ± 1 digit (23°C ± 5 °C)
 Conversion Rate: 50, 25, 12.5, 2.5/sec
 Display: LED, 14.2mm (Red)
 Max. Display: ± 9999
 Polarity: A "-" is display automatically
 Overrange Indication: When input exceeds the maximum display, display "oFl" or "-oFl"
 Decimal Point: Settable to any digit position (By DIP switch on the display board)
 Zero Display: Leading zero suppression
 Monitor Display: Peak hold (PH), Digital zero (DZ), Tracking zero (TZ), Remote (RE)
 Sensor: Strain gauge sensor 350 Ω
 Excitation Supply: 5VDC $\pm 5\%$ less than 60mA
 10VDC $\pm 5\%$ less than 30mA
 Zero Adjustment: -0.3~+2.4mV/V
 Gain Adjustment: 0.9~3.3mV/V
 Min. Input Sensibility: 0.45 μ /digit (at DC5V)
 0.9 μ V/digit (at DC10V)
 Max. Input Voltage: 3.3mV/V
 Frequency Coefficient: Approx. 5Hz (-3dB)
 Temperature Coefficient: $\pm(0.005\% \text{ rdg} + 0.5 \text{ digit})/^\circ\text{C}$
 External Control: Hold; COM terminal and HOLD terminal shorted or 0V
 Start; 0V to +5V pulse (20ms to 45ms) or contact signal
 Digital Zero; COM terminal and DZ terminal shorted or 0V
 Peak Hold } COM terminal and PH terminal
 Valley Hold } shorted or 0V
 Peak-valley hold }
 Pattern setting; COM terminal and P.SEL terminal shorted or 0V

● Comparator Section

Control System: Microcomputer
 Setting Range: -9999 to +9999 with polarity
 Comparative Condition: HI setpoint < Indication \rightarrow HI
 HI setpoint \geq Indication \geq LO setpoint \rightarrow GO
 Indication < LO setpoint \rightarrow LO
 Relay Contact Capacity: 250VAC 0.2A resistive load
 120VAC 0.5A resistive load
 30VDC 2A resistive load
 Photo Coupler Capacity: Sink current Max. 20mA (less than 30V)
 Saturation voltage=less than 1.2V at 20mA
 Hysteresis: 1~99 digit

● Common Section

Memory Back Up: EEPROM
 Operating Temperature: 0 to 50°C, 35 to 85% RH
 Power Supply: 90 to 132VAC
 180 to 264VAC
 4VA (at 100V)
 Power Consumption:
 Dimensions: 48(H) \times 96(W) \times 144.5(D) mm DIN size
 Weight: Approx. 500g (unit only)
 Dielectric Strength: Between Input terminal/COM terminal, relay, photo coupler,
 Between Input terminal/COM terminal, DC500/1 min.
 Between Input terminal/case, earth,
 Between Power supply terminal/COM, case, relay, photo coupler,
 Between Power supply terminal/COM, AC1500V/1 min.
 Insulation Resistance: 500VDC more than 100M ohms at the above terminals
 Accessories: Screw terminal, Terminal cover, Instruction Manual

■ Features

- Built-in Microcomputer
- Peak Hold, Digital Zero, Tracking Zero
- HI and LO setpoints
- Bright LED, 14.2mm (Red)
- Excitation supply 5VDC, 10VDC
- Conversion Rate 50/sec
- BCD, RS-232C, Analog output (option)
- Direct connect strain gauge sensor
- Memory 4 pattern setpoints

■ Output

- BCD data output (Isolated input)
 - At Open collector (NPN)
 - Measured Data: Negative logic Transistor "ON" at logic 1
 - Polarity Signal: Transistor "ON" at minus input
 - Over Signal: Transistor "ON" at overflow input
 - Printing Command Signal: Transistor "ON" during a period for approx 10ms at every measurement completion
 - Transistor Output Capacity: Applied voltage, 30V max. Current 10mA max
Saturated output voltage less than 1.2V at 10mA
- At TTL
 - Measured Data: Tri-state parallel BCD positive logic latch output
 - Polarity: "1" level at minus input
 - OVER Signal: "1" level at overflow input
 - Printing Command Signal: A positive pulse of approx 10ms at every measurement completion
TTL level Funout=2, 5V CMOS
- Analog Output (Isolated input)
 - Output: 4~20mA or 0~10V
 - Accuracy: 0.5% FS (23°C ± 5 °C)
 - Resolution: 1/10000
 - Response Speed: Approx. 0.5sec
 - Temp. Coefficient: 200ppm/°C
 - Output Ripple: Less than 50mVp-p (at 0~10V)
 - Resistive Load: Less than 550 Ω (4~20mA)
Less than 10K Ω (0~10V)
- RS-232C (Isolated input)
 - Electrical Characteristics: Conforming to EIA RS-232C
 - Communication Method: Full duplex
 - Synchronous Method: Start and stop
 - Transmission Speed: 19200/9600/4800/2400 bps
 - Start Bit: 1 bit
 - Data Length: 7 bit
 - Error Detection: Even parity
 - Stop Bit: 2 bit
 - Character Code: ASCII code
 - Transmission Control: No protocol

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